

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

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NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(PCT Rule 71.1)

Date of mailing (day/month/year)	12.09.2005
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Applicant's or agent's file reference 3756PTWO/AGMa	IMPORTANT NOTIFICATION	
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International application No. PCT/EP2004/052235	International filing date (day/month/year) 17.09.2004	Priority date (day/month/year) 17.09.2003
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Applicant S.I.P.A. SOCIETÀ INDUSTRIALIZZAZIONE ...et al.

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary report on patentability and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filling translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/I/B/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:	Authorized Officer
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PATENT COOPERATION TREATY
PCT
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)
(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 3756PTWO/AG/a	FOR FURTHER ACTION	
See Form PCT/IPEA/416		
International application No. PCT/EP2004/052235	International filing date (day/month/year) 17.09.2004	Priority date (day/month/year) 17.09.2003
International Patent Classification (IPC) or national classification and IPC B29C49/48		
<p>Applicant S.I.P.A. SOCIETA INDUSTRIALIZZAZIONE ...et al.</p>		
<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of 1 sheets, as follows:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the International application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p>		
<p>4. This report contains indications relating to the following items:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Box No. I Basis of the opinion <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input checked="" type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application 		
Date of submission of the demand 12.07.2005	Date of completion of this report 12.09.2005	
Name and mailing address of the International preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465	Authorized Officer Ingelgard, T. Telephone No. +49 89 2399-7249	



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**INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY**

International application No.
PCT/EP2004/052235

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 - This report is based on translations from the original language into the following language, which is the language of a translation furnished for the purposes of:
 - international search (under Rules 12.3 and 23.1(b))
 - publication of the international application (under Rule 12.4)
 - international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements* of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):
 - a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

Description, Pages

1-5 as originally filed

Claims, Numbers

1-5 received on 15.07.2005 with letter of 13.07.2005

Drawings, Sheets

1/3-33 as originally filed

- a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing

3. The amendments have resulted in the cancellation of:
 - the description; pages
 - the claims, Nos.
 - the drawings; sheets/figs
 - the sequence listing (specify):
 - any table(s) related to sequence listing (specify):
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - the description, pages
 - the claims, Nos.
 - the drawings, sheets/figs
 - the sequence listing (specify):
 - any table(s) related to sequence listing (specify):

* If item 4 applies, some or all of these sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Yes: Claims	1-5
	No: Claims	
Inventive step (IS)	Yes: Claims	1-5
	No: Claims	
Industrial applicability (IA)	Yes: Claims	1-5
	No: Claims	

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

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Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

D1: PATENT ABSTRACTS OF JAPAN vol. 1996, no. 11, 29 November 1996 (1996-11-29) -& JP 08 174552 A (HAKKO DENKI SEISAKUSHO:KK), 9 July 1996 (1996-07-09)

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and shows:

A heated blow mould for making thermoplastic containers using the thermostabilizing treatment or heat-set process wherein a mould holder with a wall of a desired thickness is divided into two mirror shell halves each housing half a mould with a specific shape or making the container to be made comprising a heating system with a set of first electric heating elements placed parallel to the generator of the container to be made.

The subject-matter of claim 1 differs from this known blow mould in that it comprises second electric heating elements, which are substantially transversal to said first elements and placed in areas where more heat must be supplied, wherein said first and said additional electric heating elements are electrically connected to each other and wherein the first and second electric heating elements are placed between said mould holder and said mould.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as that the moulds get more expensive when the moulds themselves are equipped with heating elements and that separate heating elements applied outside the moulds normally results in a too low heat transfer.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

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The proposed solution is not described in any single prior art document or combination of prior art documents.

Claims 2-5 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Re Item VII

Note: The newly filed claims are considered to be allowable, but the description is not in conformity with these claims:

NEW CLAIMS

1. A heated blow mould (2) for making thermoplastic containers using the thermostabilizing treatment or heat-set process wherein a mould holder with a wall of a desired thickness is divided into two mirror shell halves each housing half a mould with a specific shape for making the container to be made comprising a heating system with a set of first electric heating elements (3, 4, 5, 6) placed parallel to the generator of the container to be made,
5 characterised in that it comprises second electric heating elements (7, 8, 9, 10), which are substantially transversal to said first elements and placed in areas where more heat must be supplied, wherein said first (3, 4, 5, 6) and said additional electric heating elements (7, 8, 9, 10) are electrically connected to each other and wherein the first and second electric heating elements (7, 8, 9, 10) are placed between said mould holder and said mould.
- 10 2. A heated mould as claimed in claim 1 wherein said first electric heating elements are tubular electric resistors and are arranged parallel to each other.
- 15 3. A heated mould as claimed in claim 1 wherein said additional heating elements are placed at the top and bottom ends of the container to be made.
- 20 4. A mould as claimed in claim 1 wherein at least one of said heating systems is placed near the inside surface of the mould holder, while at least another of said heating systems is placed nearer the outside face of the mould.
- 25 5. A mould as claimed in claim 1 wherein a layer of thermally insulating material is placed at the outside surface of the mould holder.